

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/015313

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ B01J35/02, 29/072, C07C209/68, 211/08, C07B61/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ B01J21/00-38/74, C07C209/68, 211/08, C07B61/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1926-1996	Jitsuyo Shinan Toroku Koho	1996-2005
Kokai Jitsuyo Shinan Koho	1971-2005	Toroku Jitsuyo Shinan Koho	1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

JSTplus (JOIS), CA (STN)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 3-4534 B2 (Kao Corp.), 23 January, 1991 (23.01.91), Claims; column 3, line 20 to column 10, line 2 & US 4625063 A & DE 3523074 A1	1-11
Y	JP 55-149355 A (Matsushita Electric Industrial Co., Ltd.), 20 November, 1980 (20.11.80), Claims; page 2, lower right column, line 6 to page 3, lower right column, line 9 (Family: none)	1-11

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search
19 January, 2005 (19.01.05)Date of mailing of the international search report
01 February, 2005 (01.02.05)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/015313

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 61-178039 A (Oki Electric Industry Co., Ltd.), 09 August, 1986 (09.08.86), Claims; examples; Fig. 1 (Family: none)	1-11
Y	JP 7-112525 B2 (Koken Kabushiki Kaisha), 06 December, 1995 (06.12.95), Claims; examples (Family: none)	1-11
Y	JP 3-34366 B2 (Hitachi, Ltd.), 22 May, 1991 (22.05.91), Claims; column 3, line 14 to column 6, line 36; drawings & US 4631263 A & EP 85350 A1	1-11

PATENT COOPERATION TREATY

PCT

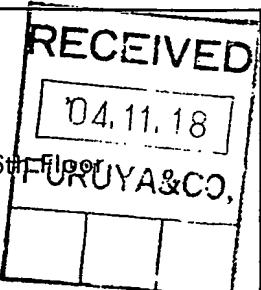
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From the INTERNATIONAL BUREAU

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FURUYA, Satoshi
 Hamacho-Hanacho Building 6th Floor
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Date of mailing (day/month/year) 10 November 2004 (10.11.2004)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference 000004055PCT	International application No. PCT/JP2004/015313

The applicant is hereby notified that the International Bureau has received the record copy of the international application as detailed below.

Name(s) of the applicant(s) and State(s) for which they are applicants:

KAO CORPORATION (for all designated States except US)
 NISHIMURA, Toru et al (for US)

International filing date : 08 October 2004 (08.10.2004)
 Priority date(s) claimed : 08 October 2003 (08.10.2003)

Date of receipt of the record copy by the International Bureau : 28 October 2004 (28.10.2004)

List of designated Offices :

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 OA :BF,BJ,CF,CG,CI,CM,GA,GN,GQ,GW,ML,MR,NE,SN,TD,TG
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PATENT COOPERATION TREATY

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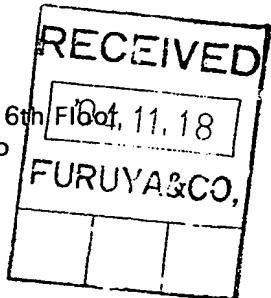
NOTIFICATION CONCERNING
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 Japan



Date of mailing (day/month/year) 10 November 2004 (10.11.2004)	
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International application No. PCT/JP2004/015313	International filing date (day/month/year) 08 October 2004 (08.10.2004)
International publication date (day/month/year) Not yet published	Priority date (day/month/year) 08 October 2003 (08.10.2003)
Applicant KAO CORPORATION et al	

1. By means of this Form, which replaces any previously issued notification concerning submission or transmittal of priority documents, the applicant is hereby notified of the date of receipt by the International Bureau of the priority document(s) relating to all earlier application(s) whose priority is claimed. Unless otherwise indicated by the letters "NR", in the right-hand column or by an asterisk appearing next to a date of receipt, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
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<u>Priority date</u>	<u>Priority application No.</u>	<u>Country or regional Office or PCT receiving Office</u>	<u>Date of receipt of priority document</u>
08 Octo 2003 (08.10.2003)	2003-349740	JP	28 Octo 2004 (28.10.2004)

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